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Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Mouse anti Human CD106

Catalogue number: **MUB2049P**

Clone	B-K9
Isotype	IgG1
Product Type	Primary Antibodies
Units	0.1 mg
Host	Mouse
Species reactivity	Human
Application	Flow cytometry

Distributors

For Purchasing Information,
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Background

CD106 is a 110kDa type 1 transmembrane sialoglycoprotein, which is also known as vascular cell adhesion molecule 1 (VCAM-1). The CD106 protein is primarily expressed on activated vascular endothelium but has also been detected on dendritic cell types, macrophages and non-vascular cells in certain tissues. Expression of CD106 is induced by inflammatory stimuli and cytokines. CD106 binds to the integrins CD49d/CD29 (also known as VLA4) and alpha4beta7 and is important in leucocyte-endothelial cell adhesion and signal transduction. The CD106 protein is thought to play a key role in the migration of leucocyte from the blood into tissues, particularly at sites of inflammation. Studies suggest that CD106 may also play a role in the development of rheumatoid arthritis and atherosclerosis.

Source

B-K9 is a mouse monoclonal IgG1 antibody derived by fusion of X63/Ag8.653 mouse myeloma cells with spleen cells from BALB/c mice immunized with activated human umbilical vein endothelial cells.

Product

Each vial contains 100µl 1mg/ml purified monoclonal antibody in PBS containing 0.09% sodium azide.

Applications

The antibody produced by clone B-K9 can be used for CD106 cell identification, quantification and isolation by flow cytometry. The antibody has also been reported for use in blocking studies. For this application, please request a sodium azide free antibody format. Optimal antibody dilutions for the different applications should be determined by titration. The recommended range for flow cytometry is 1:100 – 1:200.

Specificity

The mouse monoclonal antibody B-K9 recognizes human CD106.

Storage

Store at 4°C, or in small aliquots at -20°C.

References

1. Wagner BJ, Lob S, Lindau D, Horzer H, Guckel B, Klein G, Glatzle J, Rammensee HG, Brucher BL, Konigsrainer A. Simvastatin reduces tumor cell adhesion to human peritoneal mesothelial cells by decreased expression of VCAM-1 and B1 integrin. *Int. J. Oncol.* 2011;39(6):1593 – 1600.
2. Ticchioni M, Raimondi V, Lamy L, Wijdenes J, Lindberg FP, Brown EJ, Bernard A. Integrin-associated protein (CD47/IAP) contributes to T cell arrest on inflammatory vascular endothelium under flow. *FASEB J.* 2001; 15:341-350

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. This product contains sodium azide. To prevent formation of toxic vapors, do not mix with strong acidic solutions. To prevent formation of potentially explosive metallic azides in metal plumbing, always wash into drain with copious quantities of water. This datasheet is as accurate as reasonably achievable, but Nordic-MUbio accepts no liability for any inaccuracies or omissions in this information.